



Polyethylene LE0574

Description

LE0574 is a thermoplastic black polyethylene compound, specially designed for strippable semiconductive screen applications. It can be used in thermoplastic form or crosslinked via a grafting process.

Applications

LE0574 is intended for strippable semiconductive shield for silane crosslinkable medium voltage cables with rated voltages up to 36 kV.

Specifications

LE0574 meets the applicable requirements as below when processed using sound extrusion practice and testing procedure:

BS 6622
IEC 60502

ISO 1872-EVAC, KHYX, 40-G090, C35
NF C33-223

Physical Properties

Property	Typical Value	Test Method
<small>Data should not be used for specification work</small>		
Density	1140 kg/m ³	ISO 1872-2/ISO 1183
Melt Flow Rate (190 °C/21,6 kg)	10 g/10min	ISO 1133
Tensile Strain at Break (25 mm/min)	200 %	ISO 527
Tensile Strength (25 mm/min)	12 MPa	ISO 527
Hardness, Shore D (1 s)	56	ISO 868
Moisture (500 ppm)	< 500 ppm	Karl Fischer-titration

Electrical Properties

Property	Typical Value	Test Method
<small>Data should not be used for specification work</small>		
DC Volume Resistivity (23 °C)	< 100 Ohm.cm	ISO 3915
DC Volume Resistivity (90 °C)	< 1000 Ohm.cm	ISO 3915

Processing Techniques

The actual conditions will depend on the type of equipment used. To produce a good and reliable cable, it is essential to ensure careful and very clean handling of the semiconductive material. Hence all material handling should preferably be conducted in closed systems and in clean room conditions. Practical advice is given in a separate brochure. Please contact your Borealis representative for more details.

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Extrusion

Barrel 1	170 °C
Barrel 2	180 °C
Barrel 3	185 °C
Barrel 4	190 °C
Barrel 5	190 °C
Head	190 °C
Min allowed Melt temperature	180 °C

Packaging

Package: Smallbins

Storage

LE0574 has a shelf life of 18 months from production date if stored in unopened original packages, under dry and clean conditions at temperatures between 10 - 30 °C (50 - 85 °F).

More information on storage is found in our "Safety data sheet" / "Product safety information sheet" for this product.

Safety

The product is not classified as a dangerous preparation.

Disclaimer

The product(s) mentioned herein are not intended to be used for medical, pharmaceutical or healthcare applications and we do not support their use for such applications.

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication, however we do not assume any liability whatsoever for the accuracy and completeness of such information.

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It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.

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